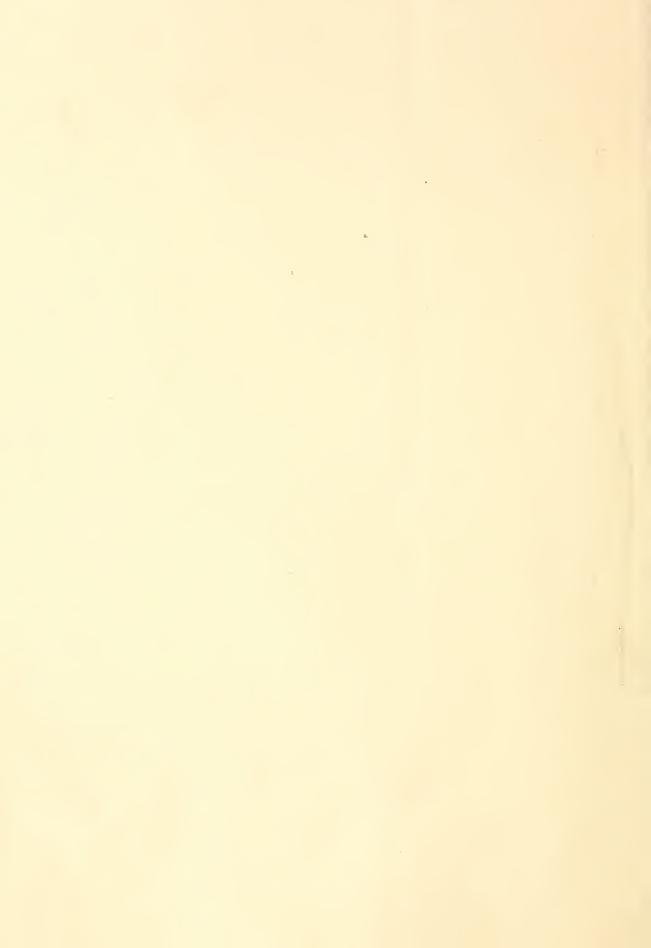
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FOREIGN

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P.L. 480's Contribution to INDIA'S ECONOMIC DEVELOPMENT

ERS-FOR.-8 May 1961 By William F. Hall Regional Analysis Division

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U.S. agricultural products have made a major contribution to India's economic development during the past 4 1/2 years.

India has been the principal recipient of agricultural commodities under Title I of Public Law 480. Such commodities have constituted one-fourth--almost \$2 billion worth--of the total market value of agricultural products covered by Title I, Public Law 480 agreements through 1960.

The first agreement was signed in August 1956, and was intended to run for 3 years, but food deficits became more serious and all of the food commodities were imported in less than 2 years. Another agreement was negotiated in June 1958.

Since then, several Title I agreements have been signed to provide India with needed agricultural commodities which the United States has in abundance. The most important of these agreements was the one signed with India May 4, 1960. This was the largest in the history of Public Law 480--\$1.3 billion market value, plus certain ocean transportation costs. It was for a 4-year period calling for delivery of 16 million tons of wheat and 1 million tons of rice.

Table 1 summarizes all commodities programed for India under Title I agreements and supplemental agreements, while Table 2 shows shipments through December 31, 1960.

Cumulative U.S. exports of these products under Title I, II and III of Public Law 480 and Section 402 of the Mutual Security Act for the same period (August, 1956 through December, 1960) are summarized in Table 3.

These exports have contributed an average of 74 calories per day per capita to the Indian diet for the period, or the equivalent of about 3.5 percent of the daily per capita caloric intake in India. Each installment of the 4-year Title I agreement of 4 million metric tons of wheat and 250 thousand metric tons of rice will provide 90 calories daily per capita. In any one year this would provide for the annual population growth of 2 percent and an additional 2 percent for increased consumption.

Aside from providing much of India's expanded need for food supplies, the sale of Public Law 480 agricultural commodities provides local currency used in India's economic development. Of the \$1,345.2 million in market value and ocean transportation (including only the amount to be financed for the first year of the 4-year agreement) 85 percent has been earmarked for use by India for economic development during the Second and Third 5-Year Plan periods. This amount includes \$369.9 million for grants, \$112.6 million for loans to private enterprise in India, and \$667.8 million in loans to the Government of India.

Out of total Public Law 480 rupee-funds earmarked for loans and grants, \$78 million was expended by June 30, 1960. However, \$316 million was obligated as of April 1961 for 10 development projects in India. Total obligations and expenditures by grants and loans from Public Law 480 funds are summarized in Table 4. Selected examples of projects contributing to India's agricultural and industrial development follow.

River Valley Development: Twelve valley development projects are under construction in various States of India. These will provide irrigation for additional food production, and dams for control of floods, and hydroelectric power. From 8 of these projects alone over 12 million kilowatts of electricity will be produced and some 9 million acres will be benefited by irrigation.

The Uttar Pradesh Agricultural University: This university has been aided by a \$2 million grant and is being patterned after the U.S. land grant colleges with the assistance of educators from the University of Illinois. This institution was inaugurated in November of 1960, with Prime Minister Nehru and the former Ambassador Bunker officiating.

The Refinance Corporation: This corporation was established in accordance with the first Title I agreement with India that reserved the rupee equivalent of \$55 million for relending to private enterprise through established banking facilities. For this purpose, the Government of India established the Refinance Corporation as a private limited company whose capital subscriptions have been made up by the Reserve Bank of India, State Bank of India, Life Insurance Corporation of India and the larger Indian scheduled banks. To be eligible for refinancing, loans made by the participating banks must be to medium-sized industrial plants for periods from 3 to 7 years for the purpose of providing increased production within the private sector.

Public Law 480 is only one of several sources of U.S. aid to India, but it has been an important multi-purpose element in the country's economic development. It has enabled India to buy, in rupees, the additional food and fiber its perennially low foreign exchange balances would not otherwise have permitted. The availability of these commodities has sustained the Indian diet at levels of caloric intake that would not have been possible without using scarce foreign exchange. And the funds generated by the Public Law 480 sales have gone mostly into economic development programs.

Prospects for Agricultural Development in India

Accomplishments under the Second 5-Year Plan have been significant. The national income has been increasing by more than 3.5 percent a year. Industrial production moved up 30 percent during the first 4 years. Investment in the economy has reached a level of from 10 to 11 percent of total national income. India's total investment rate is now over 3 times the level of 10 years ago.

Agricultural targets probably will not be fully achieved when final data are in. It is expected that food grain production in 1961 will be 77.2 million metric tons or 4.7 million tons short of target goal. A summary of all other agricultural targets compared with anticipated production for 1961 is contained in Table 5.

Estimated total investment that was to have been made in the Second 5-Year Plan when it ended March 31, 1961 is about \$14.2 billion or double that of the First 5-Year Plan. Investment in the public sector was 54 percent of the total and was allocated as follows: 11.5 percent agriculture, minor irrigation, community development and cooperation; 18.7 percent major and medium irrigation and power; 23.0 percent industry and minerals; 28.1 percent transportation and communications; and 18.7 percent social services (Table 6).

The Second Plan fell short of its total outlay target by one year or 20 percent of the total outlay planned. This amount (\$4.2 billion) is being carried forward into the Third Plan.

The central purpose of the Third 5-Year Plan is to develop industry and agriculture more intensively. The Plan period is considered by India to be the first-half of the "critical decade ahead" during which India seeks to achieve and consolidate its "take-off" point for a self-sustaining economy.

The investment planned for the draft Third 5-Year Plan is \$21.4 billion, of which \$13.0 billion will be in the public sector and \$8.4 billion in the private sector. Investment during the next 5 years will be equivalent to the total invested during the last 10 years. The planned allocations of government investment in the public sector are: 14.1 percent agriculture and minor irrigation, 21.8 percent major and medium irrigation and power, 24.1 industry and minerals, 20.0 percent transport and communications, and 20.0 percent social services and inventories.

The target for food grain production under the Third 5-Year Plan is set at 102 to 107 million metric tons, for an increase of about 33 percent over the expected production in 1960-61. The other agricultural targets and percentage increases over expected 1960-61 production are summarized in Table 5.

In relation to India's requirements, these targets are not unrealistic, particularly if appreciable allowance is made for increased per capita consumption. However, the projected food grain target may be unduly optimistic. During the last 8 years, the average increase in food grain production has been 2.6 percent a year (Table 7). If production of 102 million metric tons of food grain is to be attained in 1965-66, it will require an average increase rate of over 4.9 percent. It seems unlikely that a rate of this magnitude can be attained during the Plan period, unless some unusual changes occur in India's current level of technology or greater inputs are utilized than are now planned.

Even though food grain production has been rising, domestic production has not met domestic requirements over the last decade. Therefore, India has imported almost 4 million tons of food grains annually over the last 4 years to meet domestic requirements (Table 8).

Table 1.--India: Commodity composition of Title I, Public Law 480 agreements and supplements signed August 1956 through December 1960, and commodities programmed through June 1961

Compalition		Agreements through Decem			Commoditie through	S	programed June 1961 1/
Commodity	:	Quantity :	Value	:	Quantity		Value
	:	1,000 :	Million	:	1,000	:	Million
	:	Metric tons:	dollars	:	Metric tons	:	dollars
Wheat and flour	:	26,391 :	1,630.6	:	14,391	:	906.8
Feed grains	:	832 :	28.7	:	832	:	28.7
Rice	:	1,582 :	165.3	:	660	:	78.3
Cotton	:	211 :	126.6	:	211	:	126.6
Tobacco	:	4 :	8.5	:	4	•	8.5
Nonfat dry milk	•	24 :	3.5	:	24	:	3.5
Fats and oils	:	4 :	1.0	:	4	:	1.0
Market value	:	:	1,964.2	:		:	1,153.4
Ocean transportation	:	:	347.7	:		:	201.4
Market value including	:	:		:		:	
ocean transportation			2,311.9	:	ea co	:	1,354.8

^{1/} Includes expected shipments during the first year of the \$1.3 billion,
4-year agreement signed May 1960: \$241 million wheat, \$29 million rice,
and \$49 million ocean transportation.

Table 2.--India: Title I, Public Law 480 shipments, August 1956 through December 31, 1960

Commodity	Quantity	:	Value
	: 1,000	.	Million
	: Metric tons	•	dollars
Wheat	: 12,217	:	735.0
Corn	276	:	14.0
Grain sorghums	: 140	:	5.8
Rice	: 517	:	63.0
Cotton	: 197	:	112.3
Tobacco	: 3	:	6.4
Nonfat dry milk	:21	:	3.4
Total	: 13,371	:	939.9

and Section 402 of the Mutual Security Act, and per capita share, August 1956 through December 31, 1960 Selected agricultural imports from the United States under Public Law 480 Table 3.--India:

lare 1/	Per day	Calories	66.2		2.0		2.0		3.0		1		1		1.0		74.2
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Per capita share	Per year :	Kg.	6.9		.2				ల		۲.		S.		٠,		7.7
•• ••		8	2,866 :	••	: 99	••	31 :	••	124 :	••	51:	••	: 19.0	••	34 :	••	••
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Public Law 480	Title : Title: Dona- Barter I : II : tions :	1 1	12,217:	••	276 :	••	140 :	••	517 :	••	197 :	••	ა ღ	••	21:	••	13,371 :
	Commodity		Wheat	••	Corn	••	Grain sorghums:	••	Rice :	••	Cotton	••	Tobacco:	••	Nonfat dry milk:	••	Total :

 $\frac{1}{2}$ Average Indian population of 416 million obtained by averaging 1958-1960 population. $\frac{2}{2}$ Less than .05.

Table 4.--India: Public Law 480 rupee loans and grants by project as of April 1961

Project	:	Grant	:	Loan	:	Total
River Valley Development	•	Million dollars	:	Million dollars	:	Million dollars
(includes 12 power and irrigation sub-projects)	:	12.4	:	166.2	:	178.6
Refinance Corporation	:	T Site our	:	55.0	:	55.0
Malaria Eradication		16.8	:	em em	:	16.8
Uttar Pradesh Agricultural University	:	2.1	:		:	2.1
India Institute of Technology Kanpur	:	.1	:	· · ·	:	.1
Indian Investment Center	:	•5	:		:	•5
Industrial Finance Corporation	•		:	21.0	:	21.0
Sharavathi Power Project	:		:	14.6	:	14.6
Industrial Credit and Invest- ment Corporation	:		•	21.0	:	21.0
All-India Institute of Med. Sciences	:	6.1	:		:	6.1
Total obligated	:	38.0	:	277.8	:	315.8
Total expended $1/$:	.6	:	77.8	:	78.4

^{1/} As of June 30, 1960.

																•	8	-									
1965-66	:increase	over 2/	:1960-61 3/		Percent		33-40	31	25-28	28-32	18	17	80	25			29		1			384	178			472-615	497-647
1960-61		•	:1950-513/	••	Percent:	••	44	06	29	41	67	18	17 :	20			36		1		6.	2,233	555		**	: 689	871
: Third :	:1965-66:increase	:Targets:	: 2/ :1	••	••	••	:102-107:	: 7.2 :	:9.1-9.3:	:9.3-9.7:	. 6.5 .	386 :	: 330 :	: 41 :	••	00	: 0.06 :	••	: 1.0 :	••	••	: 1,016:	: 1,016:	**	••	:406-508:	:406-508:
nd	61	:Target::Produc-:Target::Anticipated::Targets:	production:				77.2	5.5	7.3	7.3	5.5	329.0	305.0	33.0			70.0		1.2			210.0	366.0			71.0	0.89
Second	1960-61	Target: An	1/ s p	••	••	••	81.9:	6.5:	7.9:	7.7 :	5.5:	1	1	1	••	••	85.4:	••	••	••	**	1	1	••	••	1	-
First :	1955-56	*Produc-	: tion :	••	••	••	: 4/66.9 :	: 4.0 :	: 6.1 :	: 5.7 :	. 4.2 :	: 308.0:	: 303.0:	: 29.0:	••	••	: 56.2:	••	: 2.7 :	••	••	: 80.0:	: 107.0:		••	: 12,0:	13.0:
••	-: 19		1:	••	••	••	: 62,3	••	\$ 6.4	••	••	1	1	••	00	••		00	!	64	••	1	1	••	00		-
••	:Produc-:	: tion	:1950-51			, ,	:4/53.1		: 5.7	: 5.2	44	: 278.0	: 261.0	: 27.0	60	••	: 51.5	••	1 1	••	••	0.6 :	: 56.0	**	••	0.6 :	3 7.0
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	Targets and	accomplishments				Agricultural Production	Food grains	Cotton 5/	Sugarcane-gur	Oilseeds	Jute 5/	Tea 7/	Tobacco	Wool		Agricultural Services	Net area irrigated	Land reclamation (addi-:	tional area)	Nitrogenous fertilizer	(in terms of nitrogen):	Produced	Consumed	Phosphatic fertilizer	(in terms of Poos)	Produced	Consumed

Apparent preciseness of figures results from converting long tons to metric tons. E.g. food grain target is 100 to 105 long tons or 102 to 107 metric tons. Revised targets for Second 5-Year Plan.

Percents computed from original data in long tons for agricultural targets.

Estimates of production adjusted for changes in statistical coverage and methods of estimation up to 1956-57.

^{5/ 392} pound bales.

^{6/ 400} pound bales.

^{7/} Relates to calendar year.

Table 6.--India: Investment and outlays under three 5-Year Plans 1951-66

Sector	First Plan 1951-56	Second Plan 1956-61	Proposed Third Plan 1961-66
Public sector:	: Million : dollars	Million : dollars	Million dollars
Investment Current outlay Plan outlay	3,276 4,116	7,665 1,995 1/9,660	13,020 2,205 15,225
Private sector investment	3,780	6,510 :	8,400
Total investment	7,056	: 14,175 :	21,420
Total plan outlay	7, 896	: 16,170 :	23,625

^{1/} Represents likely outlays over the 5 years.

Table 7.--India: Production of food grains and pulses, 1949-50 through 1960-61, and Second and Third 5-Year Plan goals

Crop Year	Thousand metric tons
1949-50 1950-51 1951-52 1952-53 1953-54 1954-55 1955-56 1956-57 1957-58 1958-59 1959-60 1960-61 (estimated) 1960-61 (Second Plan revised goal) 1965-66 (Third Plan suggested goal)	: 58,539 : 53,087 : 53,549 : 59,526 : 69,736 : 68,306 : 66,873 : 69,856 : 63,022 : 76,716 : 72,902 : 77,220 : 81,900 : 102,000 - 107,000

Table 8.--India: Imports of cereals, 1950-1960

	:			Total	imports			Public	Law	480, T	itl	e I
Year	:	Rice		heat & :	Other	:	Total	Wheat	:	Rice	:	Total
	:				1	00	O Naturia	A				
	:		-		1	,00	00 Metric	tons			-	
1950	:	359	:	1,430	371	•	2,160		:		•	en en
	:		:			:						
1951	:	761	:	3,063	964	•	4,788		:		:	en ga
1952	:	734	:	2,551	641	:	3,926		:		:	
2,02	:	, 04	:	2,001	041	:	9,920		•		•	
1953	:	178	:	1,771	146	:	2,095		:		:	
05.4	:	(10.0	:	000	3	•			:		:	
1954	•	613	:	200	8	:	821		:		•	
1955	:	269	•	442		:	711 :	on gg	•		:	~
	*		:		3	:			:		:	
1956	:	330	:	1,113		:	1,443 :	147	:			147
1957	:	740	:	2 000		:	2 640	0.547	:	1.00	:	0.774
1701	:	748	•	2,892		:	3,640 :	2,547	:	197	:	2,744
1958	:	396	:	2,709	138	•	3,243	1,915	:		:	1,915
	:		:		3	:	3,2.3	,	:		:	-,/
1959	:	295	:	3,536	109	•	3,940	3,166	:		:	3,166
1960	•	699	:	4,374	52	:	5 106	4 050	:	040	:	4 000
. 700	•	077	•	4,314	53	i	5,126 :	4,050	:	248	:	4,298



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